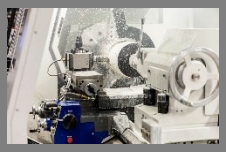
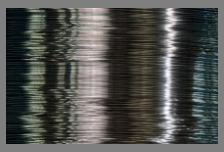
Technical Datasheet
Dilaton 36M

Characteristics and scope of application

- This alloy has got a low slope in permeability at low magnetic fields up to 100 mOe.
- Best magnetic values can only be obtained with a suitable final annealing of the finished part.

Standard designations

- DN designation — Dilaton 36M
- Alloy number / UNS — 1.3911 / -
- Norms — DIN 17745
- Typical chemical composition — Ni 36%, Fe 64%

Physical properties

Density	Temperature liquidus line	Inflection temperature	Electrical resistivity	Coercivity	Mean coefficient of thermal expansion
lb/in³	°F	°F	Ohm CMF	Hc [A/m]	10^{-6}/°F | 68 to 212°F
0.29	2615	536	475	< 24	max. 0.72

Mechanical properties

Ultimate tensile strength	Yield strength	Elongation
ksi	ksi	%
71*	39*	40*

* soft annealed

Deutsche Nickel